

CLAIMS

1. A process for the preparation of a phosphorus pentoxide (hexagonal variety) powder with improved flowability, characterized in that said 5 phosphorus pentoxide powder is subjected to mechanical stirring by the dry route at ambient temperature under a dry gas atmosphere for a period of time ranging from 5 minutes to 30 minutes.

2. The process as claimed in claim 1, 10 characterized in that the mechanical stirring time is between 10 and 20 minutes.

3. The process as claimed in either of claims 1 and 2, characterized in that the stirring rate of the device used for carrying out the process ranges 15 from 100 rev/min to 350 rev/min.

4. The process as claimed in claim 3, characterized in that the stirring rate is between 150 rev/min and 300 rev/min.

5. The process as claimed in any one of 20 claims 1 to 4, characterized in that it is carried out at a temperature ranging from 15 to 30°C.

6. A phosphorus pentoxide (hexagonal variety) powder obtained as claimed in one of claims 1 to 5, exhibiting a Hausner ratio H_r , defined as being the 25 ratio of the tamped apparent density d_t to the aerated apparent density d_a , of equal to or less than 1.25.